

## WHAT IS CLAIMED IS:

1. A radiography system for acquiring a radiographic image of an object using radiation, comprising:

    a radiographic image receiving section for receiving the radiographic image of the object using the radiation;

    an optical image receiving section for detecting light from the object, and for receiving the optical image of the object;

    an object type determination section for determining an object type of the radiographic image received by said radiographic image receiving section based on the optical image received by said optical image receiving section; and

    an image storage section storing thereon the radiographic image received by said radiographic image receiving section in association with the object type determined by said object type determination section, and for storing the radiographic image and the object type, being associated with each other.

2. The radiography system as claimed in claim 1, wherein

    said object type determination section determines a direction from which the radiographic image of the object, which is received by said radiographic image receiving section, is taken based on the optical image received by said optical image receiving section, and

    said image storage section stores the radiographic image received by said radiographic image receiving section in association with the imaging direction determined by said object type determination section.

3. The radiography system as claimed in claim 1, wherein

said object type determination section determines an area of the object on the radiographic image received by said radiographic image receiving section based on the optical image received by said optical image receiving section, and

    said image storage section stores the radiographic image received by said radiographic image receiving section in association with the imaging area determined by said object type determination section.

4.    The radiography system as claimed in claim 1, further comprising a template image storage section storing thereon a plurality of template images, each of which is associated with the object type, wherein

    said object type determination section determines the object type by comparing the optical image received by said optical image receiving section with each of the plurality of template images stored on said template image storage section.

5.    The radiography system as claimed in claim 1, wherein an area of the optical image received by said optical image receiving section surrounds an area of the radiographic image to be received by said radiographic image receiving section.

6.    The radiography system as claimed in claim 1, wherein said optical image receiving section receives the optical image including an image of the object and an image of an area surrounding the object.

7.    The radiography system as claimed in claim 1, wherein an area of the optical image received by said optical image receiving section is substantially the same as an area of the radiographic

image to be received by said radiographic image receiving section.

8. The radiography system as claimed in claim 1, further comprising a dosage adjustment section for adjusting dose of the radiation irradiating to the object in accordance with the object type determined by said object type determination section, wherein

    said radiographic image receiving section receives the radiographic image of the object after said dosage adjustment section adjusts the dose of the radiation.

9. A machine readable medium storing thereon a program for causing a radiography system to acquire a radiographic image of an object using radiation, the program comprising modules configured to execute steps of:

    receiving the radiographic image of the object using the radiation;

    receiving the optical image of the object by detecting light emitted from the object;

    determining an object type of the radiographic image received in said radiographic image receiving step based on the optical image received by in said optical image receiving step;

    associating the radiographic image received in said radiographic image receiving step with the object type determined in said object type determination section; and

    storing the radiographic image and the object type, being associated with each other in said associating step.

10. The machine readable medium as claimed in claim 9, further comprising a module configured to execute a step of adjusting

dose of the radiation irradiating to the object in accordance with the object type determined in said object type determination step, wherein

    said radiographic image receiving step is conducted after said dosage adjustment step.